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Mazdoor Kisan Shakti Sangathan

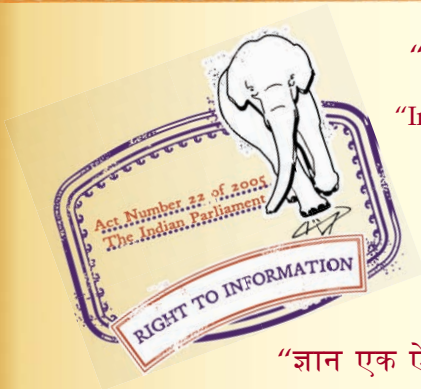
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“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 13610 (1993): Electronic Pliers and Nippers -
Nomenclature [PGD 5: Assembly Hand Tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS 13610 : 1993

(Reaffirmed 1998)

भारतीय मानक

इलेक्ट्रानिकी प्लासों और चिमटियों की नामावली

Indian Standard

ELECTRONIC PLIERS AND NIPPERS —
NOMENCLATURE

UDC 621·881·4 [621·38] : 001·4

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

May 1993

Price Group 4

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Assembly Hand Tools Sectional Committee, had been approved by the Production Engineering Division Council.

This Standard gives the nomenclature of pliers and nippers used for gripping, cutting or continued gripping and cutting of objects or wires while working on electronic gadgets. For nomenclature of general purpose pliers, nippers and pincers reference may be made to IS 11526 : 1986 'Nomenclature for pliers, pincers and nippers'.

This standard is in alignment with ISO 8979 : 1988 'Pliers and nippers for electronics — Nomenclature' issued by the International Organization for Standardization (ISO).

Indian Standard

ELECTRONIC PLIERS AND NIPPERS —
NOMENCLATURE

1 SCOPE

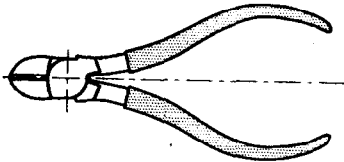
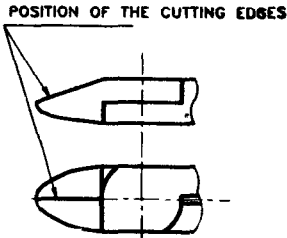
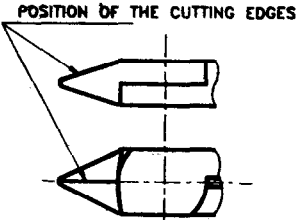
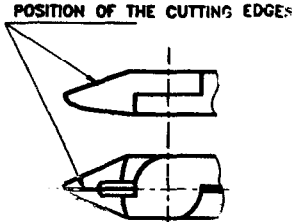
This Standard covers the nomenclature of pliers and nippers for electronics. The pliers and nippers may be supplied with or without return springs or sleeves. The cutting nippers may be supplied with a safety device (e.g. lead catcher).

NOTE — The figures in this Standard are given as examples only and are not intended to affect the manufacturer's design.

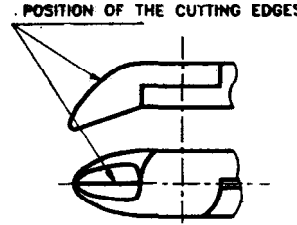
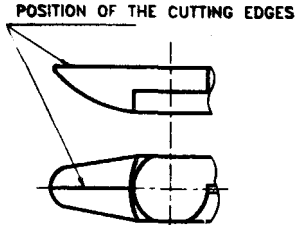
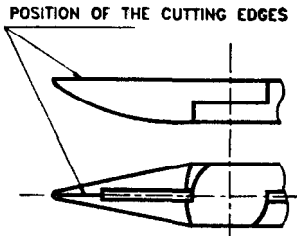
2 NOMENCLATURE

2.1 Single-Purpose Nippers

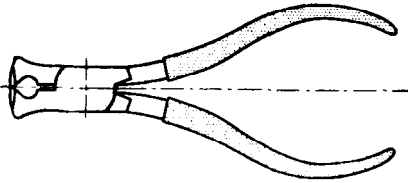
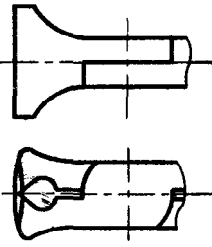
2.1.1 Cutting Nippers

No.	Designation	Figure
101	Diagonal and side cutting nippers	
102	Diagonal cutting nipper with radiused jaws*	
103	Diagonal cutting nipper with pointed jaws	
104	Diagonal cutting nipper with pointed jaws and tip cutters	

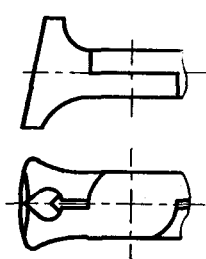
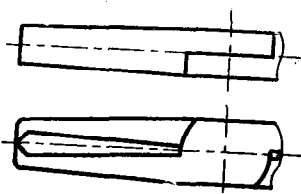
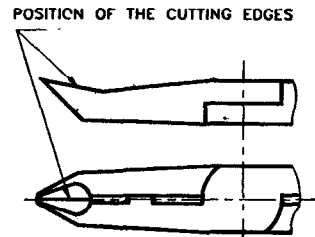
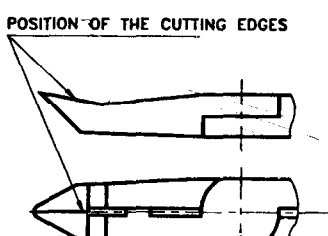
*This type of nipper may be supplied with relieved jaw.

No.	Designation	Figure
105	Diagonal cutting nipper with back cutting edges	
106	Side cutting nipper*	
107	Side cutting nipper with long pointed jaws with tip cutters*	

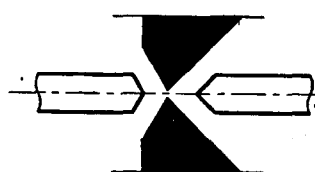
2.1.2 End and Oblique Cutting Nippers

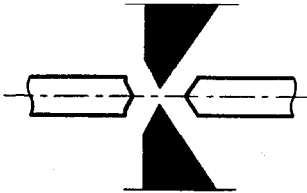
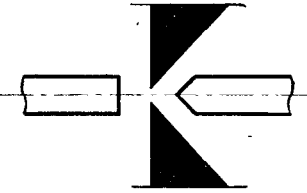
No.	Designation	Figure
201	End and oblique cutting nippers	
202	End cutting nipper	

*This type of nipper may be supplied with relieved jaws.

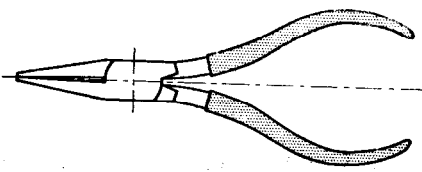
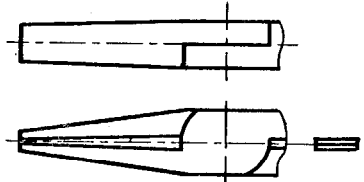
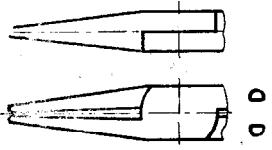
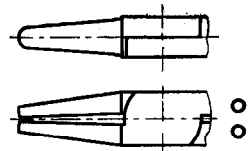
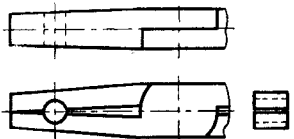
No.	Designation	Figure
203	Oblique cutting nipper	
204	End cutting nipper with long jaws	
205	Oblique cutting nipper with long jaws and front cutting edges	POSITION OF THE CUTTING EDGES 
206	Oblique cutting nipper with long jaws and back cutting edges	POSITION OF THE CUTTING EDGES 

2.1.3 Design of Cutting Edges (To be Used on All Single-Purpose Pliers and Nippers)

Designation	Figure
Standard bevelled cutting edges	

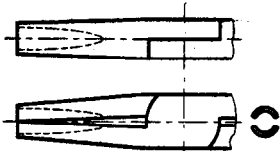
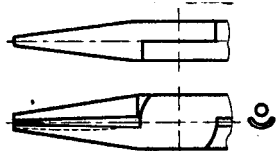
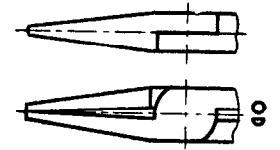
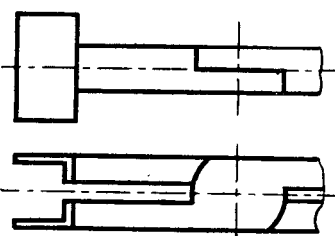
No.	Designation	Figure
	Light chamfered external cutting edge bevels (Semi-flush Cutting)	
	Without external cutting edge bevels (Flush Cutting)	

2.2 Pliers for Gripping and Manipulating

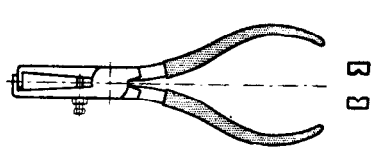
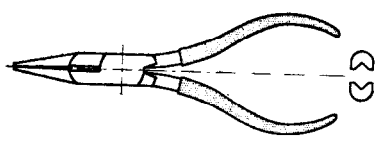
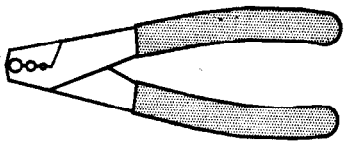
No.	Designation	Figure
220	Pliers for gripping and manipulating*	
221	Flat nose plier*	
222	Snipe nose plier*	
223	Round nose plier†	
224	Plier with transverse groove†	

*Flat nose and snipe nose pliers may be supplied with a bent nose, and the gripping surface of the nose may be either smooth or serrated.

†The gripping surface of the nose may be either smooth or serrated.

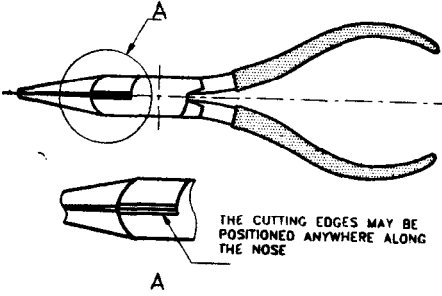
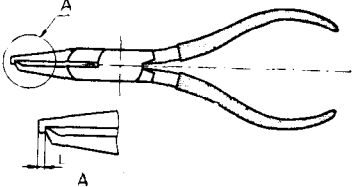
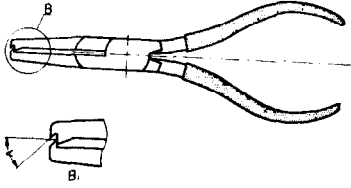
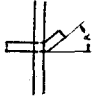
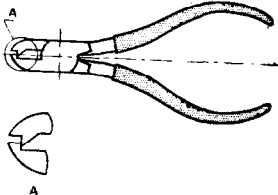
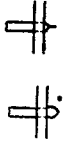
<i>No.</i>	<i>Designation</i>	<i>Figure</i>
225	Plier with longitudinal groove	
226	Longitudinal grooved and round nose plier	
227	Round/snipe nose plier	
228	Plier with L-shaped nose	

2.3 Plier for Stripping

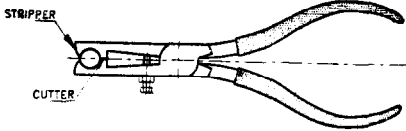
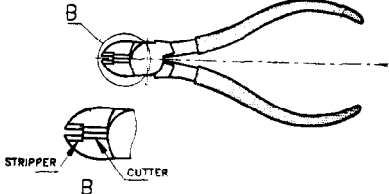
<i>No.</i>	<i>Designation</i>	<i>Figure</i>
231	Adjustable end stripping plier	
232	Non-adjustable end stripping plier	
233	Side stripping plier utility type	

2.4 Multi-purpose Pliers

2.4.1 Plier for Cutter and Manipulating

No.	Designation	Figure	Application
241	Plier with side cutter		
242	End cutting nipper for cutting at a distance		
243	End cutting nipper for distance cutting and for bending the wire to an angle α°		
244	Cutting and swaging plier		

2.5 Pliers for Cutting and Stripping

No.	Designation	Figure
251	Adjustable end cutting and stripping plier	
252	Diagonal cutting nipper with stripper	

No.	Designation	Figure
253	Diagonal cutting nipper with stripping holes	

2.6 Other Types of Multi-purpose Pliers

No.	Designation	Figure
261	Snipe nose plier with side cutter and stripper	
262	Plier for cutting, stripping, crimping and gripping	
263	Plier for cutting, crimping and stripping	
264	Plier for cutting, stripping and slitting	

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